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ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2  
12823A LANCE, MISSILE NUMBER 4379, ROUND NUMBER 352 ECL.(U)  
JUL 80

UNCLASSIFIED

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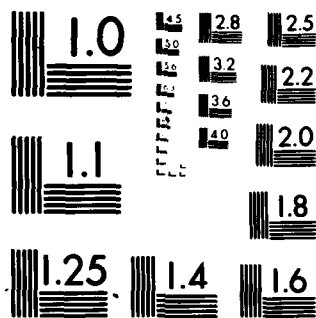
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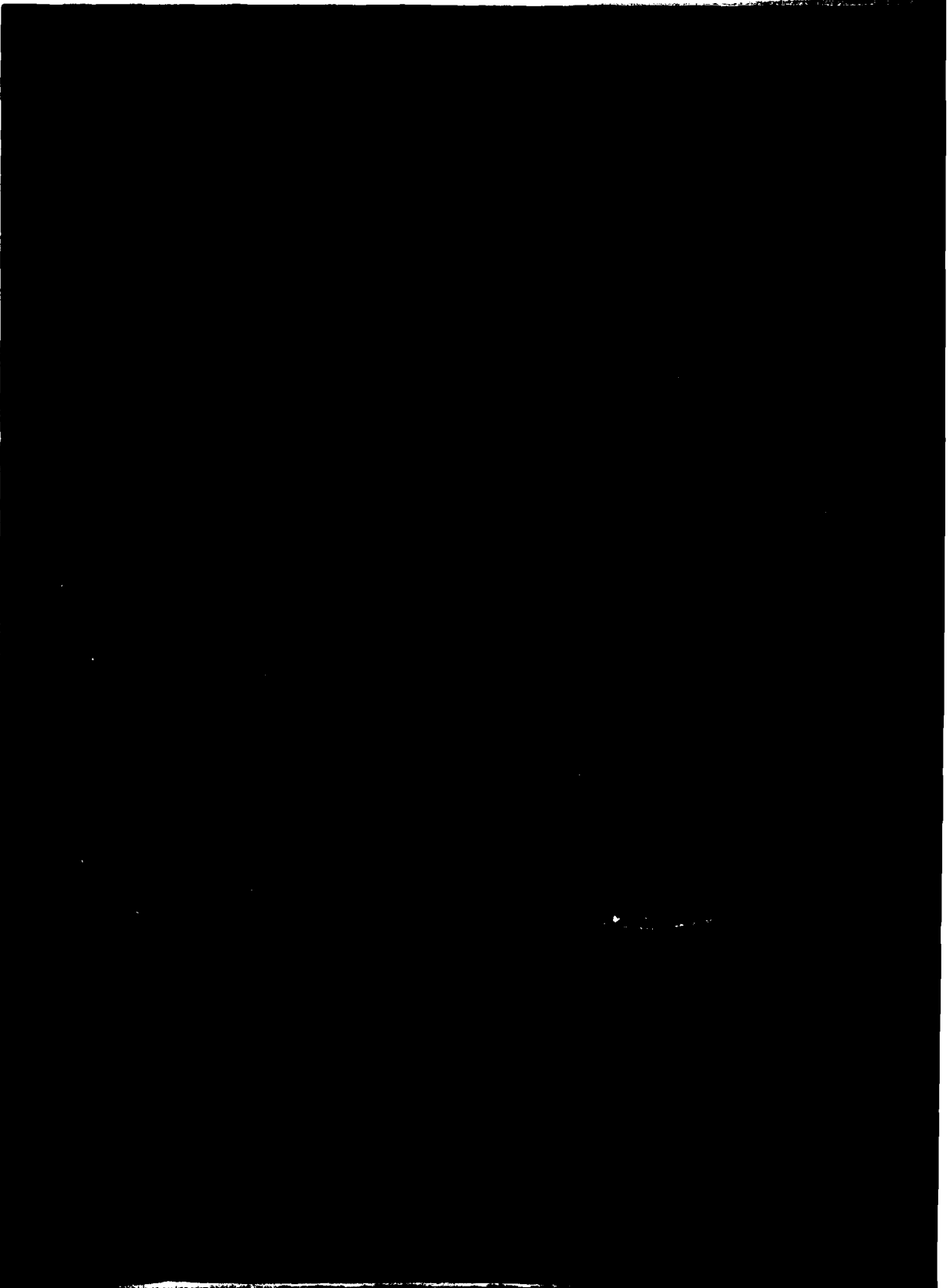


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1. REPORT NUMBER DR-1153	2. GOVT ACCESSION NO. AD-A087645	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) 12823A LANCE Missile Number 4379 Round Number 352 ECL		5. TYPE OF REPORT & PERIOD COVERED
7. AUTHOR(s) White Sands Meteorological Team		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS		8. CONTRACT OR GRANT NUMBER(s)  DA Task 1F665702D127-02
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Dev Command Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico 88002		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Dev Command Adelphi, MD 20783		12. REPORT DATE July 1980
		13. NUMBER OF PAGES 24
		15. SECURITY CLASS. (of this report)  UNCLASSIFIED
		16a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)  Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  Meteorological data gathered for the launching of the 12823A LANCE, Missile Number 4379, Round Number 352 ECL, presented in tabular form.		

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## INTRODUCTION

12823A LANCE, Missile Number 4379, Round Number 352 ECL,  
was launched from Don Site, White Sands Missile Range (WSMR), New Mexico,  
at 0843 MDT on 1 July 1980. The scheduled launch time was  
0730 MDT.

## DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team. Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

### 1. Observations

#### a. Surface

(1) Standard surface observations to include pressure, temperature ( $^{\circ}\text{C}$ ), relative humidity, dew point ( $^{\circ}\text{C}$ ), density ( $\text{gm}/\text{m}^3$ ), Wind direction and speed, and cloud cover were made at the Don Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

#### b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

## SITE AND ALTITUDE

Don	2160m	0735 MDT
	3180m	0843 MDT

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to as high as possible feet in 500-foot increments.

## SITE AND TIME

HMN	0720 MDT
JAL	0720 MDT

TABLE 1. Surface Observations Taken at 0845 MDT,  
1 July 1980, at Don Site, 12823A LANCE,  
Missile Number 4379, Round Number 352 ECL.

ELEVATION	4064	FT/MSL
PRESSURE	883.2	MBS
TEMPERATURE	27.2	°C
RELATIVE HUMIDITY	38	%
DEW POINT	11.7	°C
DENSITY	1016	GM/M <sup>3</sup>
WIND SPEED	04	KTS
WIND DIRECTION	270	DEGREES
CLOUD COVER	1	AC
	1	CL

## PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM Don Site DATE 1 July 1980 TIME 0735 MDT

**COORDINATES (WSTM)    X= 511,988.37                  Y= 247,396.36                  H= 3,996.83**

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL X OR FEET AGL .

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
0	250	04
60	MISG	MISG
120	MISG	MISG
180	240	11
240	240	10
300	230	09
360	265	07
420	255	04
480	255	03
540	210	07
600	240	09
660	250	08
720	250	08
780	230	08
840	235	10
900	255	11
960	240	12
1020	245	13
1080	245	14
1140	255	15
1200	265	16
1260	255	15
1320	245	16
1380	255	18
1440	260	19
1500	260	19
1560	255	23
1620	255	25
1680	255	24
1740	260	25
1800	265	26

[illegible][illegible]

## PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM      Don Site              DATE              1 July 1980              TIME      0843 MDT

COORDINATES (WSTM)    X= 511,988.37            Y= 247,396.36            H= 3,996.83

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL X OR FEET AGL .

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
0	270	04
60	MISG	MISG
120	175	09
180	205	09
240	190	14
300	195	13
360	205	13
420	210	13
480	220	15
540	230	16
600	235	18
660	235	15
720	250	12
780	255	12
840	255	13
900	255	14
960	250	16
1020	245	16
1080	250	18
1140	245	17
1200	250	17
1260	250	18
1320	250	19
1380	250	20
1440	250	21
1500	255	23
1560	255	23
1620	250	25
1680	250	25
1740	260	24
1800	265	25

[illegible][illegible]

STATION ALTITUDE 4126.59 FEET MSL  
1 JULY 60  
ASCENSION NO. 222

SIGNIFICANT LEVEL DATA

1830010222  
HOLLOMAN

TABLE 4.

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
878.5	4126.6	23.3	10.0
850.0	5069.2	21.5	10.0
835.4	5562.8	21.3	9.5
808.8	6480.7	19.1	8.1
800.4	6775.7	19.1	7.8
741.0	8939.4	15.1	5.0
700.0	10514.8	11.3	3.3
655.5	13143.9	5.5	-2.8
600.2	14673.2	2.5	-3.4
576.1	15760.4	.8	-8.2
549.6	17001.6	-9	-7.7
522.0	18346.6	-4.5	-8.0
500.0	19459.6	-6.2	-11.7
467.2	21194.5	-10.2	-13.1
425.4	23549.6	-15.4	-16.3
411.4	24378.7	-17.4	-17.5
400.0	25070.8	-18.5	-18.6
355.0	27965.9	-25.0	-25.1
338.6	29092.8	-27.4	-29.4
327.8	29858.2	-29.3	-39.3
322.4	30248.4	-29.8	-42.7
311.8	31032.0	-30.4	-42.6
300.0	31931.0	-32.7	-45.3
271.4	34225.3	-38.8	-49.7
250.0	36060.7	-44.2	
233.8	37529.3	-47.7	
215.8	39254.0	-52.4	
202.8	40581.4	-51.2	
200.0	40878.4	-52.4	
177.8	43354.9	-57.8	
150.0	46851.9	-62.5	
146.6	47318.3	-62.5	

GEODETIC COORDINATES  
32.88865 LAT DEG  
106.09965 LON DEG

STATION ALTITUDE 4126.59 FEET MSL  
1 JULY 80 0720 HRS MDT  
ASCENSION 140. 222

SIGNIFICANT LEVEL DATA  
1830010222  
HOLLOMAN

GEODETTIC COORDINATES  
32.88865 LAT DEG  
106.09965 LON DEG

TABLE 4 (continued)

PRESSURE GEOMETRIC ALTITUDE MILLIBARS NSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
145.0	47541.9	-61.8	
106.8	53621.5	-72.9	
103.2	54285.7	-72.5	
100.0	54900.8	-69.7	
96.4	55624.3	-68.3	
88.0	59300.1	-70.2	
78.0	61957.0	-64.6	
67.2	62785.1	-62.2	
50.0	68077.9	-58.1	
42.4	72321.9	-56.6	
36.4	75558.1	-51.6	
30.0	79719.9	-50.3	
26.8	82160.3	-49.4	

STATION ALTITUDE 4126.59 FEET MSL  
1 JULY 80  
ASCENSION NO. 222

UPPER AIR DATA  
1830010222  
HOLLOMAN

GEODETIC COORDINATES  
32.88865 LAT DEG  
106.09965 LON DEG

TABLE 5.

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup>	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4126.6	878.5	23.3	43.0	1026.9	672.5	240.0	8.0	1.000282
4500.0	867.1	22.6	45.0	1015.9	671.8	229.7	8.1	1.000280
5000.0	852.1	21.6	47.6	1001.4	670.7	217.1	8.7	1.000277
5500.0	837.2	21.3	47.1	985.1	670.3	206.6	9.7	1.000272
6000.0	822.6	20.3	48.0	971.6	669.1	198.2	10.9	1.000267
6500.0	808.2	19.1	48.9	958.6	667.7	207.9	10.0	1.000262
7000.0	794.0	18.7	48.3	943.1	667.2	223.8	9.2	1.000257
7500.0	780.0	17.8	49.0	929.5	666.1	238.4	10.7	1.000252
8000.0	766.2	16.8	49.7	916.1	665.0	247.4	13.4	1.000247
8500.0	752.7	15.9	50.4	903.0	663.9	249.5	16.3	1.000243
9000.0	739.4	15.0	51.3	890.0	662.7	249.4	19.2	1.000238
9500.0	726.1	13.7	53.5	877.9	661.3	247.9	20.6	1.000234
10000.0	713.1	12.5	55.7	865.9	659.9	245.6	21.2	1.000231
10500.0	700.4	11.3	57.9	854.0	658.5	242.2	21.9	1.000227
11000.0	687.6	10.2	57.4	842.0	657.1	237.2	22.5	1.000221
11500.0	675.1	9.1	56.9	830.1	655.7	235.2	23.2	1.000216
12000.0	662.8	8.0	56.3	818.4	654.4	230.6	23.6	1.000211
12500.0	650.7	6.9	55.7	806.8	653.0	228.3	24.0	1.000207
13000.0	638.4	5.8	55.2	795.4	651.7	227.2	24.1	1.000202
14000.0	627.1	4.8	57.3	783.6	650.5	226.2	24.3	1.000199
14500.0	615.5	3.8	60.6	771.8	649.3	225.0	24.5	1.000196
15000.0	604.1	2.8	63.9	760.2	648.2	223.8	24.6	1.000193
15500.0	592.9	2.0	60.8	748.6	647.1	221.1	23.5	1.000188
16000.0	581.8	1.2	54.4	737.0	646.0	217.8	22.3	1.000182
16500.0	570.9	.5	52.7	725.2	645.1	211.9	20.6	1.000178
17000.0	560.2	-.2	56.4	713.3	644.4	205.3	19.5	1.000176
17500.0	549.6	-.9	60.0	701.6	643.6	199.5	20.4	1.000174
18000.0	539.2	-2.2	64.4	691.7	642.0	194.5	21.6	1.000171
18500.0	529.0	-3.6	68.9	682.0	640.4	190.5	23.3	1.000169
19000.0	518.9	-4.7	71.0	672.0	639.0	186.2	24.5	1.000166
19500.0	509.0	-5.5	67.9	661.1	638.0	180.7	24.8	1.000162
	499.2	-6.3	65.3	650.5	637.0	175.9	24.9	1.000158

STATION ALTITUDE 4126.59 FEET MSL  
1 JUL 60 0720 HRS MDT  
ASCENSION NO. 222

UPPER AIR DATA  
1830010222  
HOLLOMAN

GEODETIC COORDINATES  
32.88865 LAT DEG  
106.09965 LON DEG

TABLE 5 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
20000.0	489.5	-7.4	69.4	640.6	635.6	171.7	24.5	1.000156
20500.0	480.1	-8.6	73.4	631.0	634.2	168.5	23.5	1.000153
21000.0	470.8	-9.8	77.4	621.5	632.8	167.1	21.8	1.000151
21500.0	461.6	-10.9	80.8	612.0	631.5	167.1	20.2	1.000148
22000.0	452.5	-12.0	83.8	602.5	630.1	173.7	19.1	1.000146
22500.0	443.5	-13.1	86.8	593.2	628.8	181.0	18.4	1.000143
23000.0	434.8	-14.2	89.7	584.0	627.4	183.8	19.1	1.000140
23500.0	426.2	-15.3	92.7	575.0	626.1	186.1	20.0	1.000138
24000.0	417.7	-16.5	96.3	566.2	624.6	186.6	20.5	1.000135
24500.0	409.4	-17.6	99.0	557.3	623.2	184.8	20.2	1.000133
25000.0	401.2	-18.4	99.0	547.8	622.2	183.6	20.2	1.000130
25500.0	393.0	-19.5	99.0	539.0	620.9	183.9	20.6	1.000128
26000.0	385.0	-20.6	99.0	530.4	619.5	183.8	21.1	1.000125
26500.0	377.1	-21.7	99.0	521.9	618.1	182.2	22.0	1.000123
27000.0	369.4	-22.8	99.0	513.6	616.7	180.9	22.9	1.000120
27500.0	361.9	-24.0	99.0	505.4	615.3	180.8	23.6	1.000118
28000.0	354.5	-25.1	98.5	497.4	613.9	180.9	24.0	1.000116
28500.0	347.1	-26.1	91.4	489.2	612.5	181.5	23.6	1.000113
29000.0	339.9	-27.2	84.3	481.2	611.2	182.7	22.3	1.000111
29500.0	332.8	-28.4	58.5	473.5	609.6	185.5	19.7	1.000108
30000.0	325.8	-29.5	33.4	465.7	608.2	188.7	17.4	1.000105
30500.0	319.0	-30.0	27.6	456.9	607.5	192.0	15.7	1.000103
31000.0	312.2	-30.4	28.9	447.9	607.1	194.6	14.5	1.000101
31500.0	305.6	-31.6	28.0	440.7	605.5	193.1	14.8	1.000099
32000.0	299.1	-32.9	27.1	433.6	603.9	191.7	15.2	1.000097
32500.0	292.6	-34.2	27.7	426.6	602.2	186.6	15.6	1.000096
33000.0	286.3	-35.5	28.4	419.7	600.5	181.5	16.2	1.000094
33500.0	280.1	-36.9	29.1	413.0	598.9	177.6	16.5	1.000092
34000.0	274.1	-38.2	29.7	406.4	597.2	174.9	16.6	1.000091
34500.0	268.1	-39.6	25.5**	399.9	595.4	172.6	16.6	1.000089
35000.0	262.2	-41.1	17.3**	393.5	593.5	173.9	16.9	1.000088
35500.0	256.4	-42.6	9.2**	387.3	591.6	175.1	17.1	1.000086

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.



STATION ALTITUDE 4126.59 FEET MSL  
1 JULY 80 0720 HRS MDT  
ASCENSION NO. 222

UPPER AIR DATA  
1830010222  
HOLLOMAN

GEODETIC COORDINATES  
32.88865 LAT DEG  
106.09965 LON DEG

TABLE 5 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup>	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
36000.0	250.7	-44.0	-78.6	1.0**	381.1	589.7	174.9	17.8	1.000085
36500.0	245.0	-45.2			374.6	588.1	174.4	18.5	1.000083
37000.0	239.5	-46.4			368.0	586.6	173.8	18.8	1.000082
37500.0	234.1	-47.6			361.6	585.0	173.1	18.7	1.000081
38000.0	228.7	-49.0			355.5	583.3	172.9	18.4	1.000079
38500.0	223.5	-50.3			349.4	581.5	173.1	17.8	1.000078
39000.0	218.4	-51.7			343.5	579.7	171.3	18.0	1.000077
39500.0	213.3	-52.2			336.3	579.1	168.2	19.0	1.000075
40000.0	208.4	-51.7			327.9	579.7	166.8	19.5	1.000073
40500.0	203.6	-51.3			319.6	580.3	166.4	19.6	1.000071
41000.0	198.8	-52.7			314.2	578.5	167.2	18.9	1.000070
41500.0	194.2	-53.8			308.3	577.0	169.1	17.6	1.000069
42000.0	189.6	-54.8			302.6	575.6	171.9	16.3	1.000067
42500.0	185.2	-55.9			297.0	574.2	175.5	15.0	1.000066
43000.0	180.8	-57.0			291.5	572.7	180.9	14.0	1.000065
43500.0	176.6	-58.0			285.9	571.4	189.9	14.2	1.000064
44000.0	172.3	-58.7			279.9	570.5	198.5	14.8	1.000062
44500.0	168.2	-59.3			274.0	569.7	202.8	13.9	1.000061
45000.0	164.1	-60.0			268.3	568.8	207.0	12.9	1.000060
45500.0	160.2	-60.7			262.7	567.9	207.5	11.9	1.000059
46000.0	156.3	-61.4			257.2	567.0	201.2	10.9	1.000057
46500.0	152.6	-62.0			251.8	566.1	193.8	10.2	1.000056
47000.0	148.9	-62.5			246.3	565.4	184.7	14.3	1.000055
47500.0	145.3	-61.9			239.6	566.2	179.8	19.2	1.000053
48000.0	141.7	-62.6			234.5	565.2	180.0	23.2	1.000052
48500.0	138.2	-63.5			229.7	564.0	183.6	26.1	1.000051
49000.0	134.7	-64.5			224.9	562.8	186.5	28.9	1.000050
49500.0	131.4	-65.4			220.3	561.6	191.0	26.5	1.000049
50000.0	128.1	-66.3			215.8	560.3	196.3	24.2	1.000048
50500.0	125.0	-67.2			211.4	559.1	201.1	20.5	1.000047
51000.0	121.9	-68.1			207.0	557.8	202.7	15.4	1.000046
51500.0	118.8	-69.0			202.8	556.6	207.8	10.3	1.000045

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4126.59 FEET MSL  
1 JULY 80  
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UPPER AIR DATA  
1830010222  
HOLLOMAN

GEODETIC COORDINATES  
32.88865 LAT DEG  
106.09965 LON DEG

TABLE 5 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup>	SPEED OF SOUND METER	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
52000.0	115.9	-69.9		198.6	555.4	210.3	7.2	1.000044
52500.0	113.0	-70.9		194.6	554.1	216.6	4.1	1.000043
53000.0	110.2	-71.8		190.6	552.9	217.4	2.4	1.000042
53500.0	107.5	-72.7		186.7	551.6	195.1	2.6	1.000042
54000.0	104.7	-72.7		182.0	551.6	178.1	3.1	1.000041
54500.0	102.1	-71.5		176.4	553.2	153.9	3.5	1.000039
55000.0	99.5	-69.5		170.2	555.9	135.1	4.4	1.000038
55500.0	97.0	-68.5		165.2	557.3	108.8	5.2	1.000037
56000.0	94.6	-68.5		161.0	557.3	65.6	8.4	1.000036
56500.0	92.2	-68.8		157.2	557.0	50.1	13.5	1.000035
57000.0	89.9	-69.0		153.4	556.6	45.1	16.8	1.000034
57500.0	87.6	-69.3		149.8	556.3	42.4	19.0	1.000033
58000.0	85.5	-69.5		146.2	555.9	40.4	21.0	1.000033
58500.0	83.3	-69.8		142.7	555.6	46.3	17.4	1.000032
59000.0	81.2	-70.0		139.3	555.2	55.2	14.0	1.000031
59500.0	79.2	-69.8		135.7	555.6	67.6	11.7	1.000030
60000.0	77.2	-68.7		131.6	557.0	81.3	11.0	1.000029
60500.0	75.3	-67.7		127.7	558.4	96.0	10.9	1.000028
61000.0	73.4	-66.6		123.9	559.9	101.2	11.2	1.000028
61500.0	71.6	-65.6		120.2	561.3	102.5	11.5	1.000027
62000.0	69.9	-64.5		116.6	562.8	103.7	11.8	1.000026
62500.0	68.2	-63.0		113.0	564.7	104.5	12.6	1.000025
63000.0	66.5	-62.1		109.7	566.0	105.2	13.3	1.000024
63500.0	64.9	-61.7		106.9	566.5	107.8	14.2	1.000024
64000.0	63.4	-61.4		104.2	566.9	115.0	15.4	1.000023
64500.0	61.8	-61.0		101.6	567.4	121.1	16.9	1.000023
65000.0	60.4	-60.7		99.0	567.8	123.9	17.5	1.000022
65500.0	58.9	-60.4		96.4	568.3	122.6	16.6	1.000021
66000.0	57.5	-60.0		94.0	568.7	121.2	15.8	1.000021
66500.0	56.1	-59.7		91.6	569.2	115.3	14.8	1.000020
67000.0	54.8	-59.4		89.2	569.6	103.5	14.1	1.000020
67500.0	53.5	-59.0		87.0	570.1	91.0	14.0	1.000019

STATION ALTITUDE 4126.59 FEET MSL  
1 JULY 80  
ASCENSION NO. 222

UPPER AIR DATA  
1830010222  
HOLLOMAN

GEODETIC COORDINATES  
32.84865 LAT UEG  
106.09965 LONG UEG

TABLE 5 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBAR	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup>	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
68000.0	52.2	-58.7		84.8	570.5	84.5	15.8	1.000019
68500.0	50.9	-58.4		82.6	571.0	82.8	18.6	1.000018
69000.0	49.7	-58.0		80.5	571.4	81.6	21.4	1.000018
69500.0	48.5	-57.8		78.5	571.7	84.5	22.2	1.000017
70000.0	47.4	-57.6		76.6	572.0	89.7	22.0	1.000017
70500.0	46.3	-57.4		74.7	572.2	94.9	22.0	1.000017
71000.0	45.2	-57.2		72.9	572.5	98.7	21.6	1.000016
71500.0	44.1	-57.0		71.1	572.8	102.2	21.2	1.000016
72000.0	43.1	-56.7		69.3	573.1	105.8	20.8	1.000015
72500.0	42.0	-56.5		67.6	573.7	102.1	21.1	1.000015
73000.0	41.1	-55.6		65.7	574.7	98.1	21.6	1.000015
73500.0	40.1	-54.8		64.0	575.7	94.2	22.2	1.000014
74000.0	39.2	-54.0		62.3	576.7	90.3	22.1	1.000014
74500.0	38.3	-53.2		60.6	577.7	86.4	22.1	1.000014
75000.0	37.4	-52.5		59.0	578.7	82.8	22.3	1.000013
75500.0	36.5	-51.7		57.4	579.8	81.4	23.2	1.000013
76000.0	35.7	-51.5		56.0	580.1	80.0	24.2	1.000012
76500.0	34.8	-51.3		54.7	580.3	79.7	25.0	1.000012
77000.0	34.0	-51.1		53.4	580.5	82.5	25.6	1.000012
77500.0	33.3	-51.0		52.2	580.7	85.1	26.2	1.000012
78000.0	32.5	-50.8		50.9	580.9	87.6	26.9	1.000011
78500.0	31.7	-50.7		49.7	581.1	90.7	27.4	1.000011
79000.0	31.0	-50.5		48.5	581.3	93.6	27.9	1.000011
79500.0	30.3	-50.4		47.4	581.5	96.3	28.5	1.000010
80000.0	29.6	-50.2		46.3	581.7			1.000010
80500.0	28.9	-50.0		45.2	581.9			1.000010
81000.0	28.3	-49.8		44.1	582.2			1.000010
81500.0	27.6	-49.6		43.1	582.4			1.000010
82000.0	27.0	-49.5		42.0	582.7			1.000009

STATION ALTITUDE 9126.59 FEET MSL  
1 JULY 80 0720 HRS MDT  
ADJUNCTION NO. 222

MANDATORY LEVELS  
1030010222  
HOLLOMAN

GEODETIC COORDINATES  
32.88865 LAT DEG  
106.09965 LONG DEG

TABLE 6.

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES (TN)	SPEED KNOTS	
850.0	5066.	21.5	10.0	48.	215.0	8.8	
800.0	6785.	19.1	7.0	40.	216.7	9.5	
750.0	8505.	15.7	5.5	51.	249.5	10.9	
700.0	10505.	11.3	3.3	58.	242.1	21.9	
650.0	12522.	6.9	-1.4	56.	228.2	24.0	
600.0	14665.	2.5	-3.4	65.	222.9	24.2	
550.0	16961.	-9	-7.7	60.	199.8	20.4	
500.0	19433.	-6.2	-11.7	65.	176.3	25.0	
450.0	22109.	-12.3	-14.3	85.	175.6	18.9	
400.0	25029.	-18.5	-18.6	99.	183.6	20.2	
350.0	28254.	-25.7	-26.4	94.	181.2	23.0	
300.0	31868.	-32.7	-45.3	27.	191.9	15.1	
250.0	35982.	-44.2			174.0	17.9	
200.0	40780.	-52.4			166.7	19.3	
175.0	43573.	-58.2			192.0	14.4	
150.0	46726.	-62.5			187.2	12.7	
125.0	50388.	-67.2			200.1	20.4	
100.0	54732.	-69.7			139.0	4.1	
80.0	59105.	-70.2			61.9	12.4	
70.0	61745.	-64.6			103.5	11.8	
60.0	64874.	-60.6			123.7	17.4	
50.0	68620.	-58.1			81.9	20.5	
40.0	73257.	-54.7			94.1	22.2	
30.0	79300.	-50.3			97.3	28.7	

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL  
1 JULY 80 0720 HRS MDT  
ASCENSION NO. 189

SIGNIFICANT LEVEL DATA  
1830030105  
JALLEN

GEODETTIC COORDINATES  
33.16712 LAT DEG  
106.49511 LON DEG

TABLE 7.

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
881.0	22.0	41.0
878.4	22.0	52.0
862.6	22.6	52.0
850.0	22.1	51.0
745.4	16.0	53.0
700.0	12.1	57.0
651.3	6.6	67.0
610.0	4.9	50.0
526.0	-3.2	61.0
500.0	-6.0	53.0
485.8	-7.5	67.0
470.4	-8.5	58.0
447.6	-11.5	69.0
432.8	-13.2	62.0
400.0	-18.1	71.0
381.2	-21.0	75.0
376.6	-21.4	63.0
363.2	-22.7	48.0
343.2	-25.1	48.0
300.0	-32.9	42.0
233.6	-42.4	40.0
250.0	-43.1	
217.4	-51.1	
200.0	-53.5	
176.0	-57.7	
163.6	-61.3	
151.6	-60.3	
150.0	-61.2	
109.6	-70.0	
102.8	-72.8	
100.0	-70.4	
97.6	-68.2	

GEODETIC COORDINATES  
 33.16712 LAT DEG  
 106.49511 LON DEG

SIGNIFICANT LEVEL DATA  
 1030030105  
 JALLEN

TABLE 7 (continued)

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
86.0 57989.4	-70.2		
70.0 62106.8	-62.4		
50.0 69055.1	-57.0		
32.6 76101.5	-52.4		
30.0 79800.1	-50.1		
28.4 81076.2	-48.7		

STATION ALTITUDE 4031.00 FEET MSL  
 1 JULY 80 0720 HRS MDT  
 ASCENSION NO. 185

STATION ALTITUDE 4051.00 FEET MSL  
1 JUL 80 0720 HRS MDT  
ASCENSION NO. 189

UPPER AIR DATA  
1830030185  
JALLEN

TABLE 8.

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup>	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4051.0	881.0	22.0	41.0	1035.0	670.9	0	0	1.000278
4500.0	867.3	22.2	52.0	1016.6	671.6	185.6	1.0	1.000287
5000.0	852.2	22.2	51.2	999.1	671.6	185.6	2.1	1.000282
5500.0	837.3	21.4	51.2	984.4	670.6	185.6	3.3	1.000277
6000.0	822.6	20.6	51.5	970.0	669.6	185.3	4.2	1.000271
6500.0	808.2	19.8	51.8	955.9	668.6	183.7	4.5	1.000266
7000.0	794.0	18.9	52.0	941.9	667.6	185.2	4.9	1.000261
7500.0	780.1	18.1	52.3	928.1	666.6	190.9	5.4	1.000255
8000.0	766.4	17.3	52.6	914.6	665.6	200.8	6.6	1.000250
8500.0	753.0	16.5	52.8	901.2	664.6	211.6	8.7	1.000246
9000.0	739.7	15.5	53.5	888.3	663.5	226.5	11.1	1.000241
9500.0	726.5	14.4	54.6	876.0	662.2	241.3	14.2	1.000236
10000.0	713.5	13.3	55.8	863.9	660.8	248.6	16.6	1.000232
10500.0	700.8	12.2	56.9	851.9	659.5	253.4	18.5	1.000227
11000.0	688.1	11.0	59.4	840.6	657.9	252.3	19.3	1.000223
11500.0	675.6	9.4	61.9	829.6	656.2	249.7	19.7	1.000220
12000.0	663.3	8.0	64.5	818.7	654.5	245.5	20.8	1.000216
12500.0	651.3	6.6	67.0	808.0	652.8	241.7	22.1	1.000212
13000.0	639.3	6.1	62.2	794.7	652.2	239.7	23.5	1.000206
13500.0	627.6	5.6	57.4	781.7	651.5	237.6	24.6	1.000200
14000.0	616.0	5.2	52.5	768.9	650.8	233.3	23.8	1.000194
14500.0	604.6	4.4	50.7	756.0	649.9	227.3	22.6	1.000189
15000.0	593.3	3.4	52.1	745.5	648.7	218.1	21.2	1.000186
15500.0	582.2	2.3	53.5	734.3	647.4	211.6	20.8	1.000183
16000.0	571.3	1.3	54.9	723.3	646.2	206.4	20.9	1.000180
16500.0	560.6	.3	56.3	712.5	645.0	202.4	21.5	1.000177
17000.0	550.1	-.8	57.7	701.9	643.7	198.7	22.3	1.000173
17500.0	539.8	-1.8	59.1	691.4	642.5	193.7	22.8	1.000170
18000.0	529.6	-2.8	60.5	681.1	641.2	189.0	23.5	1.000167
18500.0	519.6	-3.9	59.1	670.9	639.9	185.5	23.2	1.000164
19000.0	509.7	-4.9	56.0	660.8	638.6	182.0	22.9	1.000160
19500.0	499.9	-6.0	53.1	650.9	637.2	179.0	22.9	1.000156

STATION ALTITUDE 4051.00 FEET MSL  
1 JULY 60 0720 HRS MDT  
ASCENSION NO. 185

UPPER AIR DATA  
1830030185  
JALLEN

GEODETTIC COORDINATES  
33.16712 LAT DEG  
106.49511 LONG DEG

TABLE 8 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup>	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (DEGREES TN)	SPEED KNOTS	INDEX OF REFRACTION
20000.0	490.3	-7.0	62.5	640.7	636.1	176.3	23.2	1.000155
20500.0	480.8	-7.8	64.1	630.2	635.1	173.4	23.1	1.000152
21000.0	471.5	-8.4	58.7	619.6	634.3	170.3	22.9	1.000148
21500.0	462.3	-9.5	61.8	610.1	633.0	168.9	22.3	1.000146
22000.0	453.3	-10.7	66.2	600.9	631.6	169.5	21.1	1.000144
22500.0	444.3	-11.9	67.5	591.7	630.2	172.9	20.5	1.000141
23000.0	435.7	-12.9	63.4	582.4	628.9	178.4	20.3	1.000138
23500.0	427.1	-14.0	63.5	573.5	627.5	182.4	20.3	1.000135
24000.0	418.6	-15.3	65.8	564.8	625.9	185.7	20.3	1.000133
24500.0	410.2	-16.5	69.1	556.3	624.4	185.9	19.9	1.000130
25000.0	402.0	-17.8	70.4	547.9	622.9	186.7	19.7	1.000128
25500.0	393.9	-19.0	72.3	539.5	621.3	188.5	20.0	1.000126
26000.0	386.0	-20.3	74.0	531.2	619.8	188.2	20.4	1.000124
26500.0	378.1	-21.3	67.0	522.6	618.5	187.0	20.9	1.000121
27000.0	370.4	-22.0	56.1	513.5	617.6	185.1	21.4	1.000118
27500.0	362.8	-22.7	48.0	504.5	616.6	183.3	22.0	1.000115
28000.0	355.4	-23.6	48.0	495.9	615.5	185.5	22.1	1.000113
28500.0	348.1	-24.5	48.0	487.4	614.4	187.8	21.9	1.000111
29000.0	340.8	-25.5	47.7	479.3	613.2	191.1	20.5	1.000109
29500.0	333.7	-26.7	46.7	471.6	611.7	194.6	19.1	1.000107
30000.0	326.7	-28.0	45.8	464.0	610.1	197.2	17.8	1.000105
30500.0	319.6	-29.2	44.9	456.6	608.6	199.3	16.8	1.000103
31000.0	313.1	-30.4	43.9	449.2	607.0	199.2	16.5	1.000101
31500.0	306.3	-31.7	43.0	442.1	605.5	197.8	16.4	1.000100
32000.0	300.1	-32.9	42.0	435.0	603.9	194.6	16.7	1.000098
32500.0	293.3	-34.1	41.7	427.8	602.4	191.9	17.1	1.000096
33000.0	287.2	-35.4	41.5	420.6	600.8	189.7	17.6	1.000095
33500.0	280.9	-36.6	41.2	413.7	599.2	187.3	17.8	1.000093
34000.0	274.8	-37.9	41.0	406.8	597.6	184.7	18.0	1.000091
34500.0	268.8	-39.1	40.7	400.1	596.0	182.9	18.3	1.000090
35000.0	263.0	-40.4	40.4	393.5	594.4	181.8	18.7	1.000088
35500.0	257.2	-41.6	40.2	387.0	592.8	181.3	19.2	1.000087



STATION ALTITUDE 4051.00 FEET MSL  
1 JUL 80 0720 HRS MDT  
ASCENSION NO. 185

UPPER AIR DATA  
1830030185  
JALLEN

GEODETIC COORDINATES  
33.16712 LAT DEG  
106.49511 LON DEG

TABLE 8 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup>	SPEED OF SOUND METER KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
36000.0	251.6	-42.8	17.7**	340.5	591.3	181.3	19.6	1.000085
36500.0	245.9	-44.0		373.9	589.7	180.4	19.9	1.000083
37000.0	240.3	-45.4		367.6	588.0	178.1	20.1	1.000082
37500.0	234.9	-46.7		361.3	586.3	176.0	20.0	1.000080
38000.0	229.6	-48.0		355.2	584.6	174.1	19.2	1.000079
38500.0	224.4	-49.3		349.2	582.9	172.0	18.4	1.000078
39000.0	219.3	-50.6		343.3	581.2	170.7	18.0	1.000076
39500.0	214.2	-51.5		336.8	580.0	169.4	17.6	1.000075
40000.0	209.3	-52.2		330.0	579.1	174.9	17.1	1.000073
40500.0	204.4	-52.9		323.3	578.2	181.6	16.9	1.000072
41000.0	199.7	-53.6		316.8	577.3	190.4	15.1	1.000071
41500.0	195.0	-54.3		310.4	576.3	202.2	13.5	1.000069
42000.0	190.4	-55.1		304.2	575.3	203.9	12.8	1.000068
42500.0	185.9	-55.9		298.1	574.2	201.7	12.3	1.000066
43000.0	181.5	-56.7		292.2	573.2	195.3	12.5	1.000065
43500.0	177.3	-57.5		286.3	572.1	188.0	13.3	1.000064
44000.0	173.0	-58.5		280.9	570.7	185.9	13.7	1.000063
44500.0	168.9	-59.7		275.7	569.1	185.8	13.9	1.000061
45000.0	164.9	-60.9		270.6	567.5	184.8	13.7	1.000060
45500.0	160.9	-61.1		264.3	567.3	183.2	13.4	1.000059
46000.0	157.0	-60.8		257.5	567.8	178.8	13.5	1.000057
46500.0	53.2	-60.4		251.0	568.2	169.5	14.4	1.000056
47000.0	49.5	-61.3		245.9	567.1	161.6	15.7	1.000055
47500.0	45.9	-62.0		240.6	566.1	162.6	17.5	1.000054
48000.0	42.3	-62.7		235.5	565.2	163.5	19.3	1.000052
48500.0	38.8	-63.4		230.4	564.2	168.2	19.8	1.000051
49000.0	35.3	-64.1		225.5	563.3	174.7	20.0	1.000050
49500.0	32.0	-64.8		220.7	562.4	179.9	19.8	1.000049
50000.0	28.8	-65.5		216.0	561.4	183.3	18.9	1.000048
50500.0	25.6	-66.2		211.4	560.5	186.9	18.0	1.000047
51000.0	22.5	-66.9		206.9	559.5	193.1	11.3	1.000046
51500.0	19.5	-67.6		202.5	558.6	214.9	5.2	1.000045

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL  
1 JULY 80  
ASCENSION NO. 185

UPPER AIR DATA  
1830030185  
JALLEN

GEODETIC COORDINATES  
33.16712 LAT DEG  
106.49511 LON DEG

TABLE 8 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREE CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup>	SPEED OF SOUND METER	WIND DATA DIRECTION DEGREES (TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
52000.0	116.9	-68.3		198.2	557.6	274.5	3.9	1.000044
52500.0	115.7	-69.0		193.9	556.7	304.5	6.4	1.000043
53000.0	110.9	-69.7		189.8	555.7	320.4	8.9	1.000042
53500.0	108.1	-70.6		185.9	554.4	325.4	7.7	1.000041
54000.0	105.4	-71.7		182.2	552.9	332.1	6.5	1.000041
54500.0	102.7	-72.7		178.5	551.6	349.2	6.2	1.000040
55000.0	100.1	-70.5		172.0	554.6	7.9	6.9	1.000038
55500.0	97.6	-68.2		165.9	557.7	20.7	7.5	1.000037
56000.0	95.1	-68.6		162.0	557.2	28.4	6.5	1.000036
56500.0	92.7	-69.0		158.3	556.6	38.3	5.8	1.000035
57000.0	90.4	-69.4		154.6	556.1	56.3	7.6	1.000034
57500.0	88.2	-69.8		151.0	555.5	66.8	11.1	1.000034
58000.0	86.0	-70.2		147.5	555.0	72.8	14.6	1.000033
58500.0	83.8	-69.2		143.2	556.3	82.1	16.7	1.000032
59000.0	81.8	-68.3		139.0	557.6	89.1	19.2	1.000031
59500.0	79.7	-67.3		135.0	558.9	97.8	19.2	1.000030
60000.0	77.8	-66.4		131.0	560.2	110.5	17.8	1.000029
60500.0	75.9	-65.4		127.2	561.5	123.5	17.1	1.000028
61000.0	74.0	-64.5		123.5	562.7	128.4	13.4	1.000028
61500.0	72.2	-63.5		119.9	564.0	136.9	9.9	1.000027
62000.0	70.4	-62.6		116.4	565.3	139.1	8.4	1.000026
62500.0	68.7	-62.1		113.4	566.0	134.1	7.9	1.000025
63000.0	67.0	-61.7		110.4	566.5	127.1	8.1	1.000025
63500.0	65.4	-61.3		107.6	567.0	117.3	11.8	1.000024
64000.0	63.9	-60.9		104.8	567.5	112.2	15.6	1.000023
64500.0	62.3	-60.5		102.1	568.1	108.1	16.6	1.000023
65000.0	60.8	-60.2		99.5	568.6	103.7	16.5	1.000022
65500.0	59.4	-59.8		97.0	569.1	99.8	16.3	1.000022
66000.0	58.0	-59.4		94.5	569.6	97.9	15.5	1.000021
66500.0	56.6	-59.0		92.0	570.1	95.8	14.8	1.000020
67000.0	55.2	-58.6		89.7	570.6	94.0	16.6	1.000020
67500.0	53.9	-58.2		87.4	571.2	92.9	20.1	1.000019

STATION ALTITUDE 4051.00 FEET MSL  
1 JULY 80 0720 HRS MDT  
ASCENSION NO. 183

UPPER AIR DATA  
1830030185  
JALLEN

TABLE 8 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
68000.0	52.6	-57.8		85.1	571.7	92.2	23.6	1.000019
68500.0	51.4	-57.4		82.9	572.2	91.8	22.7	1.000018
69000.0	50.1	-57.0		80.8	572.7	91.4	21.7	1.000018
69500.0	49.0	-56.8		78.8	573.1	91.1	20.4	1.000018
70000.0	47.8	-56.5		76.9	573.4	90.8	18.3	1.000017
70500.0	46.7	-56.3		75.0	573.7	90.4	16.3	1.000017
71000.0	45.6	-56.0		73.2	574.1	89.6	16.0	1.000016
71500.0	44.5	-55.8		71.4	574.4	88.4	18.3	1.000016
72000.0	43.5	-55.5		69.6	574.7	87.5	20.6	1.000015
72500.0	42.5	-55.2		67.9	575.1	86.9	22.3	1.000015
73000.0	41.5	-55.0		66.3	575.4	86.8	22.1	1.000015
73500.0	40.5	-54.7		64.6	575.7	86.6	21.8	1.000014
74000.0	39.6	-54.5		63.1	576.1	86.3	21.7	1.000014
74500.0	38.7	-54.2		61.5	576.4	84.0	21.9	1.000014
75000.0	37.7	-54.0		60.0	576.8	81.7	22.1	1.000013
75500.0	36.9	-53.7		58.5	577.1	79.5	22.3	1.000013
76000.0	36.0	-53.5		57.1	577.4	81.0	24.1	1.000013
76500.0	35.2	-53.2		55.7	577.8	82.5	26.0	1.000012
77000.0	34.3	-53.0		54.3	578.1	83.8	27.9	1.000012
77500.0	33.5	-52.7		53.0	578.4	88.0	28.3	1.000012
78000.0	32.8	-52.5		51.7	578.8	92.5	28.6	1.000012
78500.0	32.0	-51.9		49.1	579.5	96.9	29.1	1.000011
79000.0	31.3	-51.2		47.8	581.2			1.000011
79500.0	30.5	-50.6		46.6	582.0			1.000010
80000.0	29.8	-50.0		45.4	582.8			1.000010
80500.0	29.2	-49.4		44.3	583.5			1.000010
81000.0	28.5	-48.8						1.000010

STATION ALTITUDE 4051.00 FEET MSL  
 1 JULY 80  
 ASCENSION NO. 185 0720 HRS MDT

MANDATORY LEVELS  
 1830030185  
 JALLEN

GEODETIC COORDINATES  
 33.16712 LAT DEG  
 106.49511 LON DEG

TABLE 9.

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	WIND DATA	
				DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5071.	22.1	51.	185.6	2.3
800.0	6703.	19.3	52.	182.9	4.7
750.0	8607.	16.3	53.	213.3	9.2
700.0	10521.	12.1	57.	253.7	18.6
650.0	12541.	6.5	66.	241.5	22.2
600.0	14691.	4.0	51.	223.8	21.9
550.0	16904.	-8	58.	198.7	22.3
500.0	19470.	-6.0	53.	179.1	22.9
450.0	22154.	-11.2	68.	169.8	20.7
400.0	25085.	-18.1	71.	187.1	19.7
350.0	28317.	-24.3	48.	187.0	22.1
300.0	31943.	-32.9	42.	194.7	16.7
250.0	36063.	-43.1		181.3	19.7
200.0	40869.	-53.5		189.4	15.4
175.0	43659.	-58.0		185.9	13.6
150.0	46812.	-61.2		162.8	15.5
125.0	50481.	-66.3		187.8	16.6
100.0	54848.	-70.4		7.7	6.8
80.0	59224.	-67.5		95.3	19.6
70.0	61896.	-62.4		138.3	8.3
60.0	65036.	-59.9		101.6	16.5
50.0	68797.	-57.0		91.4	21.7
40.0	73458.	-54.6		86.6	21.8
30.0	79549.	-50.1			

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

